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(54) Title: TRANSGENIC RODENTS SELECTIVELY EXPRESSING HUMAN B1 BRADYKININ RECEPTOR PROTEIN

(57) Abstract: Non-human transgenic animals, such as transgenic mice, are generated which incorporate the a non-native form of the bradykinin B1 receptor gene against a null phenotype for the native form of the bradykinin B1 receptor. An exemplified portion of the invention disclosed a transgenic mouse wherein a targeting construct containing a transgene encoding the human B1 bradykinin receptor gene is inserted downstream of and operatively linked to the native mice bradykinin B1 promoter. This targeting construct also contains a floxed neomycin resistance gene. The resulting transgenic animals are "humanized" for the bradykinin B1 receptor and are effectively on a null background for native, functional B1 receptor activity. These animals may be crossed with a Cre-deleter strain to generate transgenic offspring which absent of the floxed marker gene. The transgenic animals described herein provide for a model to The transgenic mice of the present invention provide for an animal model enabling the analysis of compounds that are selective for the human B1 bradykinin receptor, relative to the rodent (e.g., rat or mouse) B1 bradykinin receptor.

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